

FIBER WITH LENS

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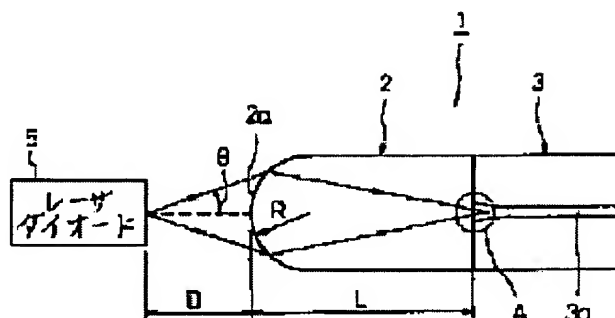
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Abstract of JP8220378

PURPOSE: To obtain a fiber with a lens which is small in the number of constituting parts, easy in center alignment, has a large working distance and tolerance and is stable in coupling efficiency by adopting the constitution formed by connecting a coreless fiber and a core enlarged fiber expanded in the core diameter at one end with the other end of this coreless fiber and the one end of this core enlarged fiber. **CONSTITUTION:** This fiber 1 with the lens is constituted by connecting the coreless fiber 2 which is formed by working one end of a coreless fiber having an isotropic refractive index to a convex curve and the core enlarged fiber 3 which is enlarged in the core diameter at one end with the other end of the coreless fiber 2 and the one end of the core enlarged fiber 3. The coreless fiber 2 converges the exit light from the optical element by the lens effect of the convex curved face and emits this light to the one end of the core enlarged fiber 3. The core enlarged fiber 3 is enlarged in the outside diameter of the core at one end and, therefore, the light emitted from the coreless fiber 2 is made incident thereon. Then, the alignment is easy and the coupling efficiency is stabilized.



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